A.A. The Chausson city motorbus. Avt. i trakt. prom. no.2:45-47 F 157. (MLRA 10:3) 1. Moskovskiy avtozavod imeni Likhacheva. (FranceMotorbuses)

Effect of the viscosity on the selection of working fluids for hydraulic transmissions. Avt.prom. no.10:23-26 0 '58.

(MIRA 11:11)

1. Moskovskiy avtozavod imeni Likhacheva.

(011 hydraulic machinery) (Automobiles--Transmission devices)

TOKAREV, A.A.; GOL'BREYKH, A.A.

Hydraulic torque converter for motorbuses. Avt. i trakt. prom. no.9: 7-12 S '56. (MIRA 9:11)

1. Moskovskiy avtozavod imeni I. A. Likhacheva. (Motorbuses--Transmission devices)

TOKAREY A.A.

eneralization dell'antica dell'Anticardi Hermonium energy del caracte della compa

Evaluating dynamic properties of urban buses. Avt.prom. no.11:23-26 N '60. (MIRA 13:11)

1. Gosudarstvennyy soyuznyy ordena Trudovogo Krasnogo Znameni nauchno-issledovateliskiy avtomobilinyy i avtomotornyy institut.
(Motorbuses-Dynamics)

TOKAREV, A.A.

Evaluating the economy of fuel on city motorbuses. Avt. grom.
no.3:24-28 Mr '61. (MIRA 14:3)

1. Gosudarstvennyy soyuznyy ordena Trudovogo Kranhoso Znam. ni
nauchno-issledovatel'skiy avtomobil'nyy i avtomotornyy institut.
(Motorbuses)

BEREZH:INSKIY, V.G.; TOKAREV, A.F.

Automatic unit for the assembly of electrode-plate blocks of alkaline batteries. Biul.tekh.-ekon.inform. Gos.nauch.-issl. inst.nauch. i tekh.inform. 16 no.5:42-43'63. (MIRA 16:7)

(Electric batteries)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756020004-6"

ISAKHANYAN, N. T.; TOKAREV, A. I.; GONCHAROV, P. A.

Effect of the composition of molding sand mixtures on the probability of the formation of shrinkage cavities. Izv. vys. ucheb.zav.; chern.met.7 no. 5:147-153 '64. (MIRA 17:5)

1. Moskovskiy institut stali i splavov.

TOKAREV, A.I.

Conditions favorable to the occurrence of shrinkage cavities in castings. Izv. vys. ucheb. zav.; chern. met. 7 no.3:193-200 (MIRA 17:4)

1. Moskovskiy institut stali i splavov.

TOKAREV, Aleksandr Ivanovich; SHREYLERBAN, K.A., red.

[Toward the third goal]K tret'em rutesh. Rostov-na-Donu. Rostovskoe knizhno. iza-vo, 1963. .] p.

[Toward the third goal]K tret'em rutesh. Rostov-na-Donu. Rostovskoe knizhno. iza-vo, 1963. .] p.

[Toward the third goal]K tret'em rutesh. Rostov-na-Donu. Rostovskoe knizhno. iza-vo, 1963. .] p.

[Toward the third goal]K tret'em rutesh. Rostov-na-Donu. Rosto

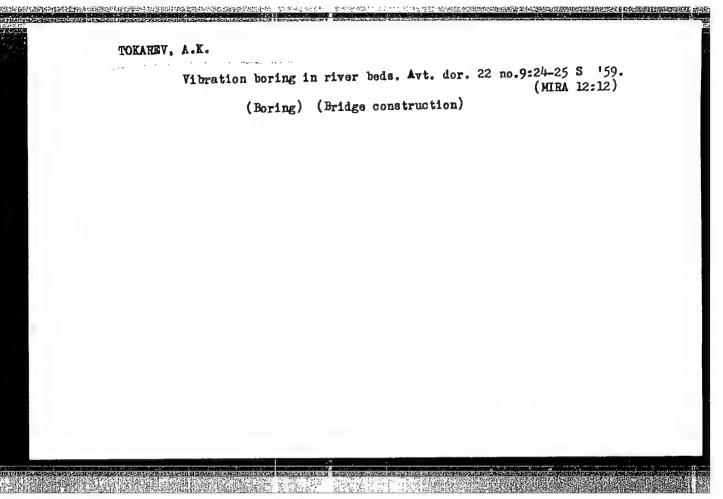
Balancing of a solid rotating about a fixed point. Trudy Inst.

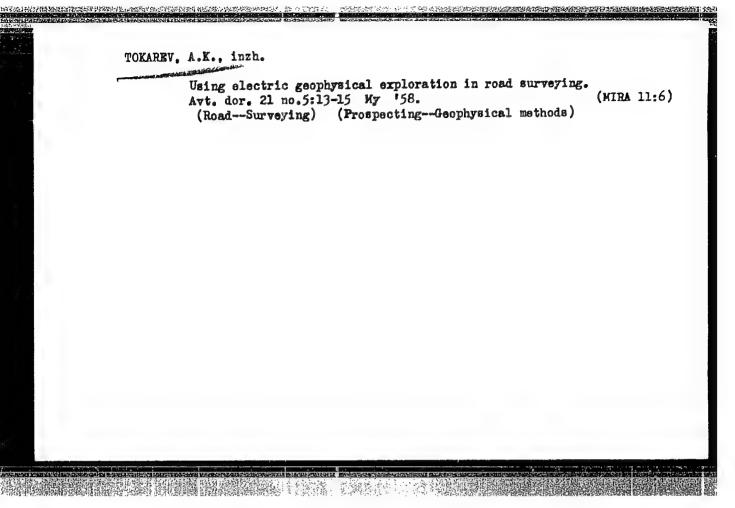
Balancing of a solid rotating about a fixed point. Trudy Inst.

Balancing of a solid rotating about a fixed point. Trudy Inst.

(Mira 13:3)

(Mechanical movements)



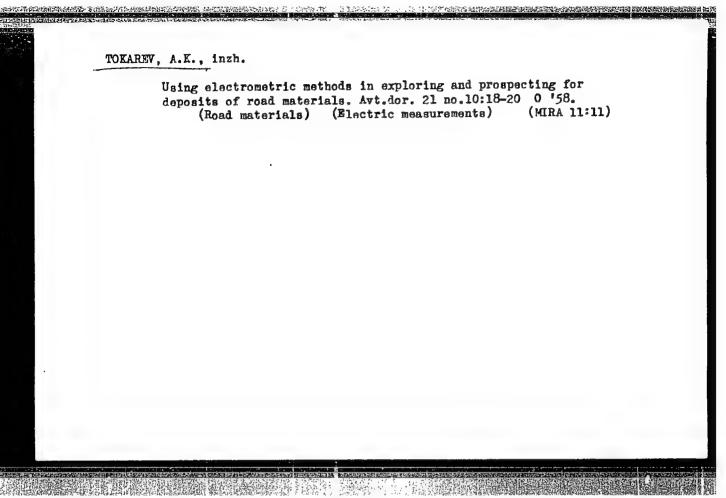


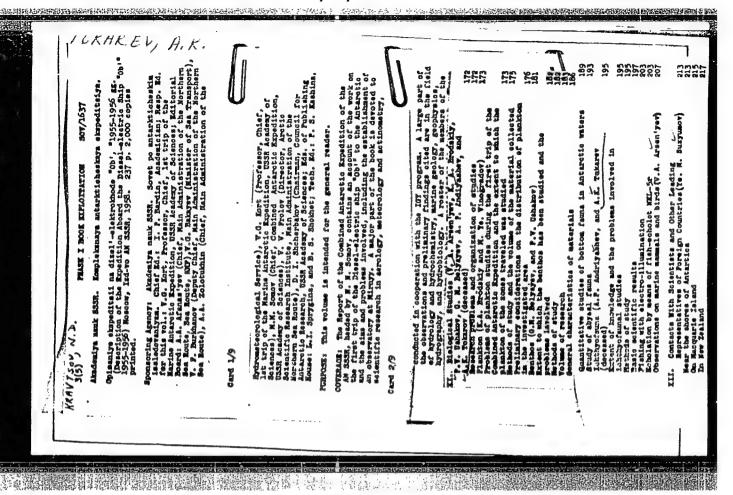
TOKAREV, A.K., inzh.

Electric exploration of water supply resources by using new apparatus. Vod. i san. tekh. nc.6:23-27 Je 165.

(MIRA 18:8)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756020004-6"





ACC NR. AP6029051 SOURCE CODE: UR/0413/66/000/014/0080/0080 (A)INVENTORS: Kudryayevtsev, G. I.; Tokarev, A. V.; Gitis, S. S.; Ivanova, V. H.; Seina, Z. N.; Lyubova, T. A.; Nemleva, S. A. ORG: none TITLE: A method for obtaining modified polyethyleneterephthalate. Class 39, No. 183936 /Announced by All-Union Scientific Research Institute of Synthetic Fibers (Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennogo volokna) 7 SOURCE: Izobret prom obraz tov zn, no. 14, 1966, 80 TOPIC TAGS: polyethylene, plantic, chemical synthesis ABSTRACT: This Author Certificate presents a method for obtaining a modified polyethylene terephthalate by introducing modifying ingredients in the course of its synthesis. To increase the heat resistance of the polymer and of its products, the bifunctional derivatives of pyromellitimide (for instance, N, N1-(bis-ethoxy)pyromellitimide or N, N' -bis-acetylpyromellitimide is used as the modifying addendum. SUB CODE: 11/ SUBM DATE: 02Jul65

Cord 1/1

IDC . 678 CTL Polition

second of	OKAWA, S.V., A. CANTON, G.I.	
	For ments and soudy of unenturated riber-forming polyments. Fart 1: Synthesis of unsaturated polyamides. Vysokom. Scar. 6 no. 5:850-855 My 164.	
	 Vseacymingy namehno-issledovatolickiy institut taku atvom volokna. 	60
· garanta		

5(4), 15(8) SOV/76-33-3-8/41 AUTHORS: Tokarev. A. V., Spasskiy, S. S. TITLE: Co-polymerization of Unsaturated Polyesters With Vinyl Monomers (Sopolimerizatsiya nenasyshchennykh poliefirov s vinilovymi monomerami). II. Determination of the Co-polymerization Constants (II. Opredeleniye konstant sopolimerizatsii) PERIODICAL: Zhurnal fizicheskoy khimii, 1959, Vol 33, Nr 3, pp 554 - 558 (USSR) ABSTRACT: The example of the system poly-1,3-butyleneglycolfumaratestyrene (I) serves as proof of the possibility of applying the integral equation according to Mayo and Lewis to the determination of the constants of co-polymerization of unsaturated polyesters together with vinyl derivatives. Copolymerization was carried out in glass ampoules in a nitrogen atmosphere in the ultrathermostat at 60+0.1°C and 0.01% by weight of benzoyl peroxide. A comparison between the polystyrenes obtained and a product (Ref 7) described in publications is given (Table 1). With increasing reaction intensity in polymerization the styrene-content in the co-Card 1/3

Co-polymerization of Unsaturated Polyesters With Vinyl SOV/76-33-3-8/41 Monomers. II. Determination of the Co-polymerization Constants

polymer increases somewhat up to a certain extent (11-12% by weight). Two different experiments were carried out (Tables 3,4) in order to investigate the reactivity of the co-polymer; it was found that no soluble intermediate products form in this reaction. Only part of the double bonds of the polyester takes part in co-polymerization (Table 2), whereas the other part passes over into the co-polymer without any change, which fact has to be taken into account in connection with the calculation of the co-polymerization constants (CPC) by a corresponding correction. The calculation results of the (CPC) according to the equation by Mayo-Lewis, with the above correction, are in good agreement and are for (I)_{T1} = 3.0 ± 0.4 and r₂= 0.03 ± 0.03.

The values show that the radicals M₁ of the polyester do more rapidly react with its monomers than with styrene and that the styrene radical M₂ reacts predominantly with the unsaturated ester chains of the polyester, which is considered to be due to additional steric hindrances. In con-

Card 2/3

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756020004-6"

Co-polymerization of Unsaturated Polyesters With Vinyl SOV/76-33-3-8/41 Monomers. II. Determination of the Co-polymerization Constants

clusion the authors thank V. V. Korshak. There are 5 tables,

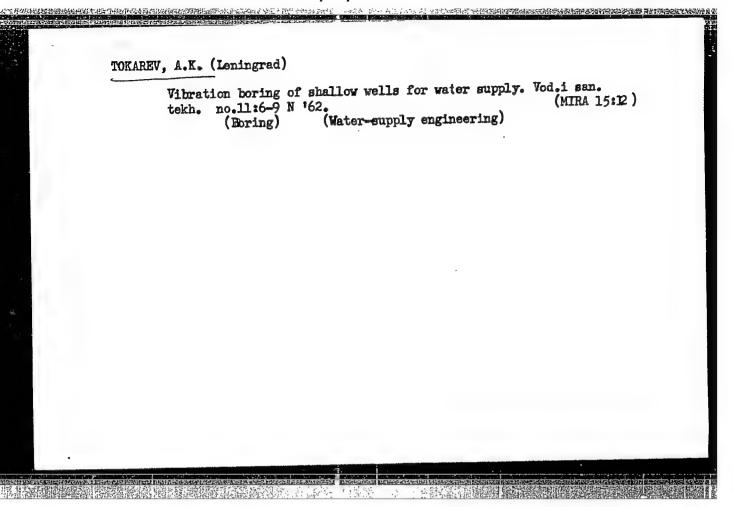
and 7 references, 2 of which are Soviet.

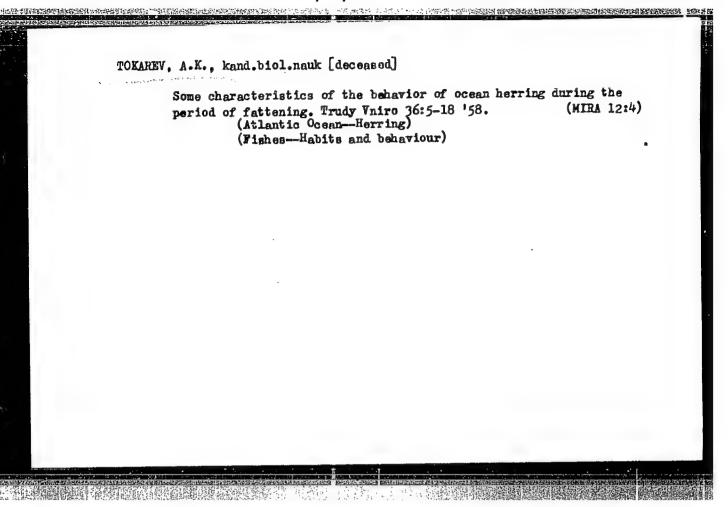
ASSOCIATION: Ural'skiy filial Akademii nauk SSSR (Ural Branch of the Academy

of Sciences, USSR)

SUBMITTED: March 6, 1957

Card 3/3





TOKAHEV, A.K., kand.biol.nauk [deceased]

Biological and hydrodynamic sounds uttered by fishes. Trudy VWHO
36:272-279 '58. (MIRA 12:4)
(Fishes)
(Sound production by animals)

TOKAREV, A.K., insh.

Vibrational boring of soils in surveying highways. Avt.dor.
21 no.3:23-25 Mr '58.
(Roads--Surveying) (Boring machinery)

(Roads--Surveying)

TOKAREV, A. K.

Fisheries

Ways of improving the trade's reconnaissance for fish and marine animals. Ryb. khoz., 28, No. 5, 1952.

9. Monthly List of Russian Accessions, Library of Congress, October 1953/2 Uncl.

[12] 并对于这一写世界形式的的文字的地名自由地名和北京地名的西西尔里亚亚亚亚亚亚亚亚亚亚亚亚亚

TOKAREU, A.K

USSR/ Biology - Zoology

Card 1/1

Pub. 22 - 42/47

Authors

Tokarev, A. K.

Title

Schools of ordinary Caspian sprats

Periodical :

Dok. AN SSSR, 100/6, 1187-1189, Feb 21, 1955

Abstract

Information is presented regarding the basic industrial fish namely, the ordinary Caspian Sea sprats (seasons of the year and areas on the sea where large sprat schools are found). Four USSR references (1937-1948). Graphs; drawing.

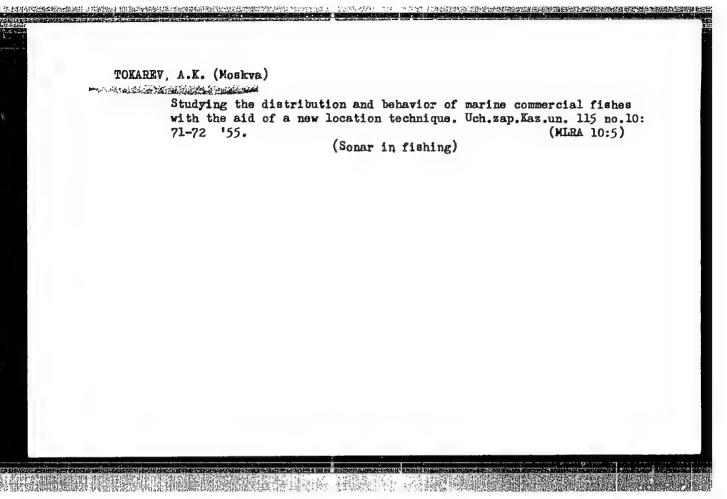
Institution:

All-Union Scientific Research Institute of Sea Fish Economy and Oceano-

graphy.

Presented by:

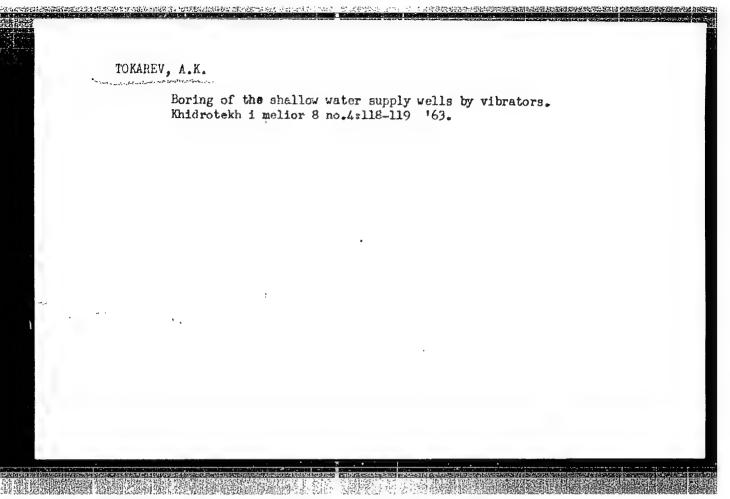
Academician E. N. Pavlovskiy, November 10, 1954



TOKAREV, A.K., inzh.

Vihration boring of soil when surveying for railroads. Transp. strol. 13 no.5:6-8 My '63. (MIRA 16:7)

(Railroads—Surveying) (Boring)



TOKARKY, Aleksey Nikolayevich; SHCHERRAKOV, Aleksendr Vladimirovich; SHCHEGOLEV, U.i., redaktor; ENTIN, M.L., redaktor izdatel stva; POPOV, N.D., tekhnicheskiy redaktor

[Radio hydrogeology] Radiogidrogeologiia. Moskva, Gos. nauchnotekhn. izd-vo lit-ry po geol. i okhrane nedr. 1956. 262 p. (Water, Underground) (Radioactivity) (MIRA 10:3)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756020004-6"

AL'TOVSKIY, M.Ye.; CHAPOVSKIY, Ye.G.; BABUSHKIN, V.D.; BINDEMAN,
N.N.; LAPTEV, F.F.[deceased]; SOKOLOV, I.Yu.; CHALISHCHEV,
A.M.[deceased]; PROKHOROV, S.P.; TOKAREV, A.M.; KOROTETZV,
A.P.; AERAMOV, S.K.; KONOPIYANTSEV, A.A., red.; PRIKLONSKIY, V.A.,
red. deceased]; SPITSYN, N.I., red.; MARINOV, N.A., red.;
KULICHIKHIN, N.I., red.; GARMONOV, I.V., red.; LYUBCHENKO, Ye.K.,
red. izd-va; POTAPOV, V.S., red. izd-va; GUROVA, O.A., tekhn.
red.

[Hydrogeologist's handbook] Spravochnik gidrogeologa. Pod obshchei red. M.E.Al'tovskogo. Moskva, osteoltekhizdat, 1962. 615 p. (MIRA 15:7) (Water, Underground)

TOKAREV H.A.

AUTHOR:

Popov, V.N.

89-10-34/36

TITLE:

Review of the Book "Radiohydrogeology" by A.N. Tokarev, A.V. Shcherbakov, Geological State Publishing House, 1956, 262 pages, price Roubles 13,40 ("Radiogidrogeologiya", Tokarev, A.N., Shcherbakov A.V., Gosgeoltekhizdat, 1956, 262 stranits,

tsena 13,40 Rub.)

PERIODICAL:

Atomnaya Energiya, 1957, Vol. 3, Nr 10, pp. 376-377 (USSR)

ABSTRACT:

This book is the first of its kind to be published in the Soviet Union. It consists of two parts. The first part contains three chapters: The first chapter discusses the causes of radioactive elements contained in water. The second chapter deals with the problem of various types of natural radioactive water. The third chapter is devoted to hydrogeological conditions which lead to the formation of uranium deposits. The second part consists of six chapters dealing with radiohydrogeological methods of investigation. The book contains both theoretical as also a large number of experimental data which were most suitable selected by the authors on the strength of their many years of experience. It is a drawback of this book that the text was not sufficiently well revised and corrected.

and corr

AVAILABLE:

Library of Congress

Card 1/1

BRODSKIY, A.A. [deceased]; TOKAREV, A.N., red.

[Fundamentals of hydrogeochemical prospecting methods for sulfide deposits.] Osnov ridrogeokhimicheskogo metoda poiskov sul'fidnykn mestorozhdenii. Moskva, Izd-vo Pledra," 1964. 257 p. (Moscow. Vsesoiuznyi nauchno-issledovatel'ski institut gidrogeologii i inzhenernoi geologii. Trudy, no.12)

ROGAL'-LEVITSKIY, G.A., inzh.; TOKAREV, A.P., inzh.

Standard designs of boiler systems. Prom. energ. 20 no.2:45-46
(MIRA 18:4)

VOLKOV, M.I., dots.; KOROLEV, S.A.; LOPATKIN, V.G., dots.; TOKAREV, A.P.; KOZLOVA, G.A., prof., red.; KOKOSHKO, A.G., red.; MARTYNOVA, M.N., tekhn. red.

[Socialist means of production] Sotsialisticheskii sposob proizvodstva. Moskva, Izd-vo "Mysl'." No.3. [Funds of socialist enterprises and the formation of net income in a socialist enterprise] Fondy sotsialisticheskikh predpriiatii i obrazovanie chistogo dokhoda v sotsialisticheskom khoziaistve. 1964. 186 p. (MIRA 17:4)

1. Kommunisticheskaya Partiya Sovetskogo Soyuza. Vysshaya partiynaya shkola. Kafedra politicheskoy ekonomii.

عسد

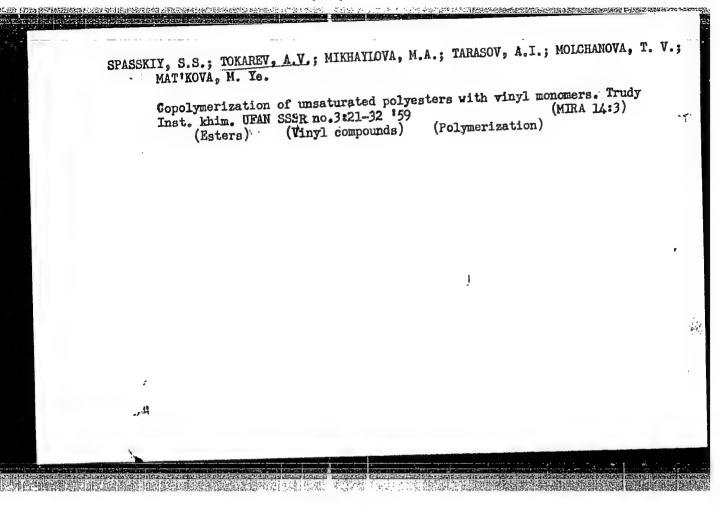
TOKAREV, Aleksandr Pavlovich

[Ground rent and the distribution of income on collective farms] Zemel'naia renta i raspredelenie dokhodov v kolkhozakh. Moskva, Mysl', 1964. 134 p. (MIRA 18:4)

SPASSKIY, S.S.; MIKHAYLOVA, M.A.; TOKAREV, A.V.; TARASOV, A.I.

Contact oxidation of commercial phenanthrene with oxygen from the air. Zhur.prikl.khim. 29 no.3:447-458 Mr '56. (MLRA 9:8)

1. Ural'skiy filial Akadamii nauk SSSR. (Phenanthrene) (Oxidation)



5.3830 SOV/79-30-1-56/78

Spasskiy, S. S., Tokarev, A. V., Mikhaylova, M. A., Molchanova, T. V., Mat'kova, M. Ye. AUTHORS:

Copolymerization of Unsaturated Polyesters With Vinyl TITLE:

Monomers. III Concerning the Nature of Copolymeriza-

tion of Unsaturated Polyesters With Vinyl Monomers

Zhurnal obshchey khimii, 1960, Vol 30, Nr 1, pp 250-257 PERIODICAL:

(USSR)

Copolymers of poly(1,3-butylene glycol fumarate) with ABSTRACT:

vinylcarbazole, acrylonitrile, vinyl acetate, methyl methacrylate, and poly(ethylene glycol fumarate) with

vinyl acetate were prepared in order to study the nature of this copolymerization. Literature data

concerning the copolymerization constants of different copolymers are reviewed. Copolymerization of polyesters

with acrylonitrile, vinyl acetate, and methyl meth-

acrylate was conducted in sealed glass ampoules in a Card 1/4

Copolymerization of Unsaturated Polyesters With Vinyl Monomers. III.

77395 **SOV**/79-30-1-56/78

nitrogen atmosphere. The ampoules were placed in a thromouths at 60 ± 0.10. Benzoyl peroxide was used as an initiator. After completion of the reaction (to the given extent), the ampoules were removed from the thermostat and frozen with liquid nitrogen. The trimeric copolymer was separated from other products of reaction and the initial products by treatment with acetone containing traces of hydroquinone, and washing with acetone. Copolymerization of poly(1,3-butylene glycol fumarate) with vinylcarbazole was conducted in toluene solution (in nitrogen atmosphere) in the presence of benzoyl peroxide (up to 1%). The mixture was heated for 65 hr at 100°, but no copolymers were obtained. From the data obtained, the following conclusions were made: activity of acrylonitrile in the reactions with polyesters is low in comparison with its acti.ity in the reactions with diesters of fumaric acid. Copolymerization of vinylcarbazole with polyesters does not take place at all. Apparently, the bulky substituents cause steric hindrance affecting

Card 2/4

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CIA-RDP86-00513R001756020004-6

Copolymerization of Unsaturated With Vinyl Monomers. III	Polyesters	77395 SOV /79-30-1 - 56/78
With Vinyl Monomers. III		m - activity of viny

the copolymerization process. The activity of vinyl acetate in the copolymerization remains unchanged. Copolymerization constants of the following copolymers were determined:

were determined.		r_{\circ}
Poly(1,3-butylene glycol fumarate) -	1.12 ± 0.040	1.03 ± 0.2
acrylonitrile Palu(1 3-butylene glycol fumarate) -	0.5 ± 0.5	2.1 ± 0.30
methyl methacrylate Poly(1,3-butylene glycol fumarate) -	0.2 ± 0.2	0.15 ± 0.07
vinyl acetate	0.2 ± 0.1	0.020 ± 0.02
Poly(ethylene glycol fumarate) - vinyl acetate		

Card 3/4

Copolymerization of Unsaturated Polyesters With Vinyl Monomers. III

SOV/79-30-1-56/78

There are 4 tables; 2 figures; and 16 references, 2 U.S., 5 U.K., 9 Soviet. The 5 most recent U.S. and U.K. references are: B. Hayes, R. Hunter, Chem. and Ind., 1957, 559; V. Wycherly, Chem. and Ind., 1957, 491; W. Robertson, D. Shepherd, Chem. and Ind., 1958, 126; B. Hayes, W. Read, L. Vaygan, Chem. and Ind., 1162 (1957); F. Leavitt, V. Stannett, M. Szwarc, Chem. and Ind., 28, 985 (1957).

ASSOCIATION:

Ural Branch of the Institute of Chemistry, Academy of Sciences, USSR (Uralskiy filial AN SSSR, Institut

khimii)

SUBMITTED:

July 29, 1958

Card 4/4

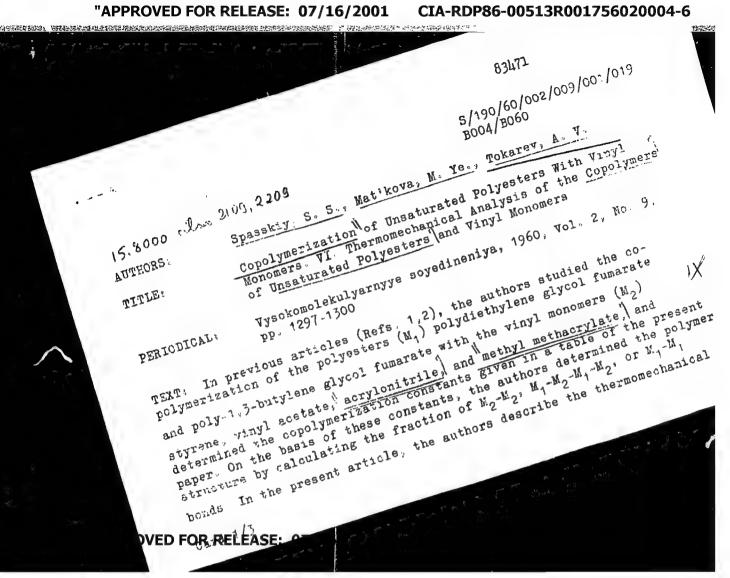
TOKAREV, A.V., FINGER, G.G.

Seminar and conference on the chemistry and technology of synthetic fibers. Khim. volok. no.1:75-76 '65.

(MIRA 18:2)

l. Vsesoyuznyy nauchno-issledovateliskiy institut iskusstvennogo volokna.

"APPROVED FOR RELEASE: 07/16/2001



83471

Copolymerization of Unsaturated Polyesters With Vinyl Monomers, VI. Thermomechanical Analysis of the Copolymers of Unsaturated Polyesters and Vinyl Monomers s/190/60/002/009/001/019 B004/B060

behavior of the copolymers. A method developed by V. A. Kargin et al.

(Refs. 5.4) was used for their investigation. Deformation as a function
of temperature was measured by means of an apparatus designed by
V. L. Tsetlin, V. I. Gavrilov, N. A. Velikovskaya, and V. V. Kochkin

(Ref. 5). Respective curves are shown in Fig. 1. The curves observed were
of two types. In the first type (copolymers of the two polyesters with
vinyl acetate and of poly-1.3-butylene glycol fumarate with styrene in an
azectropic ratio), deformation starts only at the decomposition temperature (between 270 and 290°C; at 240 - 245°C, only in the case of
acrylenitrile copolymers). In the second type (copolymers with nonazectropic ratio of components, copolymers with styrene excess, copolymers of
methyl methacrylate), deformation already takes place at a lower temperature; but with further rising temperature the curve forms a plateau
(deformation remains constant), until a further deformation occurs at the
decomposition temperature. The curves of the first type are characteristic
of M. M. M. and M. M. bonds, while the curves of the second type are

Card 2/3

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756020004-6"

83471

Copolymerization of Unsaturated Polyesters With Vinyl Monomers. VI. Thermomechanical Analysis of the Copolymers of Unsaturated Polyesters and Vinyl Monomers

S/190/60/002/009/001/019 B004/B060

characteristic of linear structures with ${\rm M_2^{-M_2^{-M}}}$ bonds. These results confirm the structures calculated from the copolymerization constants. The authors thank G. L. Slonimskiy for his introduction into the method of thermomechanical analysis. There are 1 figure, 1 table, and 6 Soviet references.

ASSOCIATION:

Institut khimii Ural'skogo filiala AN SSSR (Institute of

Chemistry of the Ural Branch AS USSR)

SUBMITTED:

November 25, 1959

Card 3/3

CIA-RDP86-00513R001756020004-6" APPROVED FOR RELEASE: 07/16/2001

5(4) AUTHORS: TITLE:

Spasskiy, S. S., Tarasov, A.I, <u>Tokerev.A.V.</u> SOV/76-33-2-2/45 Copolymerization of Unsaturated Polyesters and Vinyl Monomers (Sopolimerizatsiya nenasyshchennykh poliefirov s vinilovymi monomerami). I. Determination of the Number of Double Bonds in Copolymers of Unsaturated Polyesters and Vinyl Monomers (I. Opredeleniye chisla dvoynykh svyazey v sopolimerakh ne-

nasyshchennykh poliefirov i vinilovykh monomerov)

PERIODICAL:

Zhurnal fizicheskoy khimii, 1959, Vol 33, Nr 2,

pp 249 - 254 (USSR)

ABSTRACT:

Although these copolymers represent new thermally reactive synthetic materials the principles involved in their copolymerization have not been sufficiently investigated. The possibilities of applying two methods, based on the additivity of the specific volumes and of the specific refractions, were investigated. The following systems were used in checking the methods: polydiethylene glycol fumarate - acrylonitrile; polydiethylene glycol fumerate (I) - styrene; (I)-methyl methacrylate; (I)-vinyl acetate. Laboratory workers M. A. Mikhaylova, T. V. molchanova, M. K. Mat'kova participated in the experiments. The copolymerization was carried out

Card 1/3

Copolymerization of Uncaturated Polyesters and Vinyl 507/76-33-2-2/45 Monomers. I. Determination of the Number of Double Bonds in Copolymers of Unsaturated Polyesters and Vinyl Monomers

in glass ampuls in the presence of 0.1% by weight benzoyl peroxide in a nitrogen atmosphere and at 60+0.5°C. The index of refraction was determined using an Abbe refractometer. The magnitude of the specific shrinking of the polyester chain was determined by proceeding upon the assumption (Ref 7) that the shrinkage of the monomers in the polymerization (contraction) is dependent upon their structures. The styrene-methyl methacrylate system was tested using the rule of the additivity of the specific volumes (Table 2). The contraction was determined from the specific volumes of the diethyl fumarate (II) and polydiethyl fumarate (III) using the equation $P = M(\delta_{\vec{F}} - \delta_{PF})$ (P= contraction, M= molecular weight of (II), $\delta_{\rm F}$, $\delta_{\rm PF}$ = specific volumes of (II) and (III)); the value found was 16.7. The specific shrinkage for the chain of (I) was found to be 0.08971. The determination of the increments of the monomer double bond was carried out using the specific refraction (Table 4); a value of 0.0144 was found for (I). The results obtained by both

Card 2/3

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756020004-6"

Copolymerization of Unsaturated Polyesters and Vinyl SOV/76-33-2-2/45 Monomers. I. Determination of the Number of Double Bonds in Copolymers of Unsaturated Polyesters and Vinyl Monomers

methods described above (Table 5) are in good agreement, and it may be concluded from these determinations that both methods are equally valid in determining the copolymerization constants of unsaturated polyesters and vinyl derivatives. There are 5 tables and 8 references, 5 of which are Soviet.

ASSOCIATION:

Ural'skiy filial Akademii nauk SSSR Sverdlovsk (Ural Branch

of the Academy of Sciences, USSR, Sverdlovsk)

SUBMITTED:

March 6, 1957

Card 3/3

68949 sov/81-59-24-88951

5.3830

Translation from: Referativnyy zhurnal. Khimiya, 1959, Nr 24, p 643 (USSR)

AUTHORS:

Tokarev, A.V., Spasskiy, S.S.

TITLE:

An Investigation of the Copolymers of Poly-1,3-Butyleneglycolfumarate

and Styrene \

PERIODICAL:

Tr. In-ta metallurgii, Ural'skiy fil. AS USSR, 1958, Nr 4, pp 127 - 132

ABSTRACT:

Diagrams plotted of the integral and differential composition of the copolymers show that in the case of the initial ratios of the monomers, which differ from azeotropic ratios, the reaction mixture is enriched in styrene. The dependence between the structure of copolymers and their mechanical properties was studied by means of Kargin's method based on the plotting of thermomechanical curves, on which the polystyrene regions can be detected. The samples for the test were prepared by block polymerization in an N_2 atmosphere in the presence of benzoyl peroxide at 70°C and various initial ratios of the components. Together with the trimer also linear polystyrene chains are contained in the copolymer; at the same time also copolymers are formed which are relatively homogeneous in their composition.

Card 1/2

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SOV/81-59-24-88951

THE STATE OF THE PROPERTY OF T

An Investigation of the Copolymers of Poly-1,3-Butyleneglycolfumarate and Styrene

With an increase in the styrene content in the initial mixture the mechanical resistance of the copolymer (impact and bending resistance) deteriorates. The copolymers are solid, transparent, almost colorless, substances which are insoluble in any of the usual solvents. The study of the physical-mechanical and electrical properties showed that the new substance can be used as electric insulation material. 15

N. Motovilova



Card 2/2

SPASSKIY, S.S.; MAT'KOVA, M.Ye.; TOKARRY, A.Y.

Copolymerization of unsaturated polyesters with vinyl monomers.

Part 6. Vysokom. soed. 2 no.9:1297-1300 S 160. (MIRA 13:9)

1. Institut khimii Ural'skogo filiala AN SSSR. (Yinyl compounds)

(Polymers—Thermal properties)

FORAKEY A.V

PHASE I BOOK EXPLOITATION

SOV/3938

Akademiya nauk SSSR. Ural'skiy filial. Institut khimii.

Sbornik rabot laboratorii vysokomolekulyarnykh soyedineniy, No. 2 (Collected Papers of the Laboratory of High-Molecular Compounds, No. 2) Sverdlovsk, 1,000 copies printed.

Eds.: V.G. Plyusnin, Doctor of Chemistry, and V.N. Kozlov, Doctor of Technical Sciences; Tech. Ed.: N.F. Seredkina.

PURPOSE: This collection of three articles is intended for chemists and technicians interested in the chemistry of high-molecular compounds and polymers.

COVERAGE: The first article of this collection discusses the expression of the activity factor in the Alfrey and Price equation by a constant which could be determined independently of equations

Card 1/3

Collected Papers of the Laboratory (Cont.)

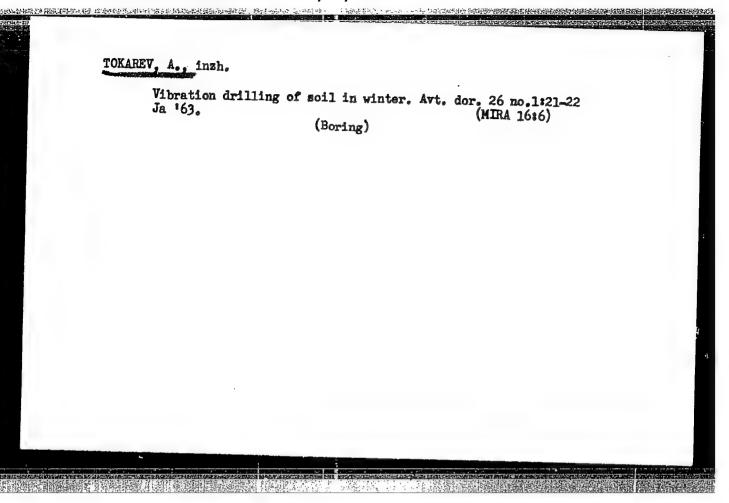
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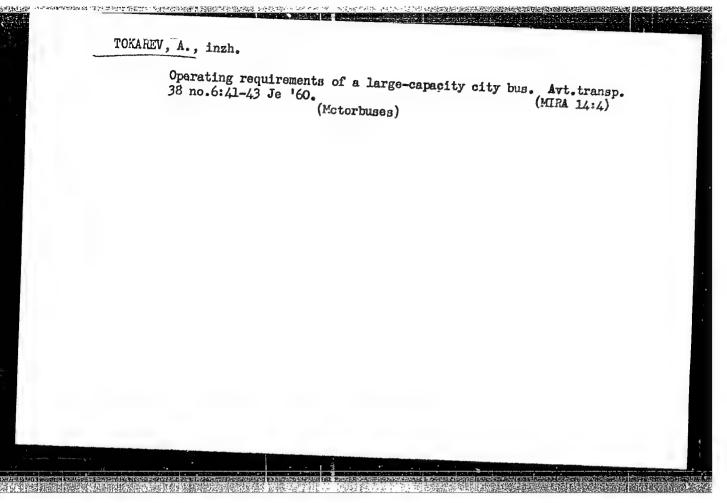
$$r_1 = \frac{Q_1}{Q_2} e^{-e_1(e_1 - e_2)}, \quad r_2 = \frac{Q_2}{Q_1} e^{-e_2(e_2 - e_1)}, \text{ where } r_1 \text{ and }$$

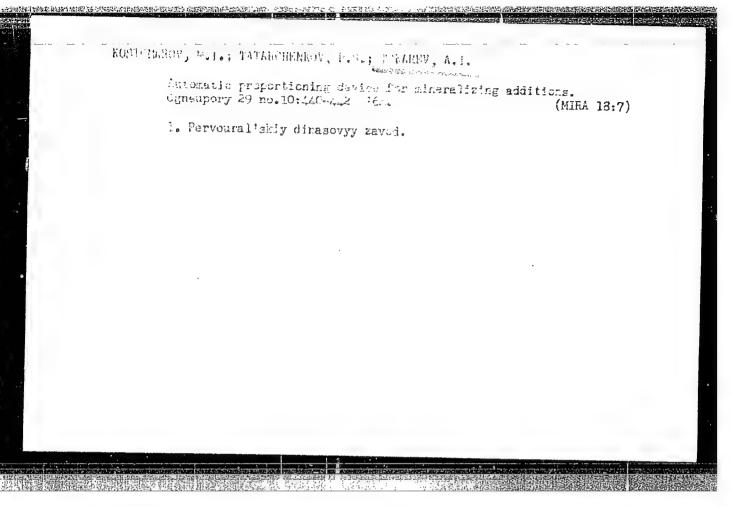
r₂ are the copolymerization constants, Q₁ and Q₂ are the activity factors of the monomers, e₁ and e₂ are the polar factors of the monomers, and e is the base of the natural logarithms. The article explores the possibility of using for this end a value characterizing the dimensions [size] of the electron cloud formed by T -electrons of the reacting double and short bonds conjugated with it. The second article reports on a study made of the copolymerization of polydiethylene glycol fumarate and of poly-1, 3-butylene glycol fumarate with styrol, methylmethacrylate, acrylonitrile and vinyl acetate to explain the peculiarities of the copolymerization reaction of unsaturated polyesters with vinyl monomers. The third article reports on a study of the behavior of nitrile rubbers and polyesters of various structure used as plasticizers. L.M. Gindin, A.D. Abkin, and S.S. Medvedev are mentioned. References accompany each article.

Card 2/3

Collected Papers of the Laborator	ry (Cont.) SOV/3938	
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AL'TOVSKIY, M. Ye.; GOLEVA, G.A.; KRAYNOV, S.F.; SLAVYANOVA, I.V.;

TOKAREV, A.N.; FROLOV, N.M.; SHVETS, V.M.

Development of V.I.Vernadskii's concept in present-day hydrogeology.

Trudy VSEGINGEO no.9:5-20 164.

(MIRA 17:10)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001756020004-6"

TOKAREV, A. V., Cand of Chem Sci -- (diss) "Polymerization of the Pole-1.3 Butylenglicol-phumarate With a Sterol," Sverdlovsk, 1959, 10 pp (Institute of Chemistry, Ural Affiliate of the Academy of Sciences USSR) (KL, 4-60, 115)

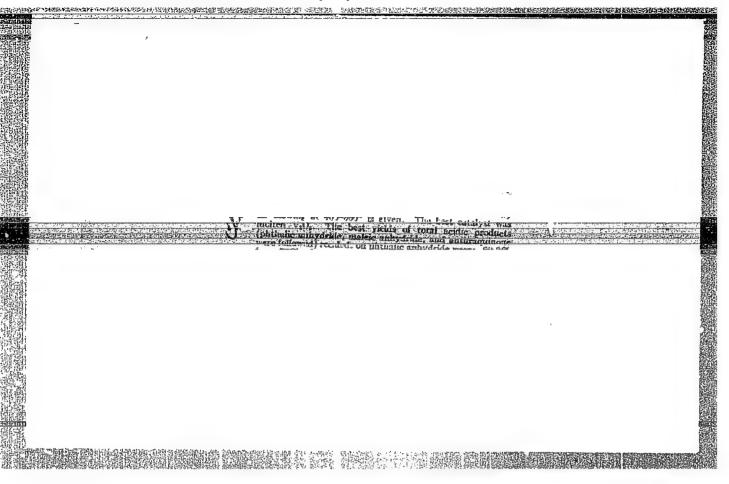
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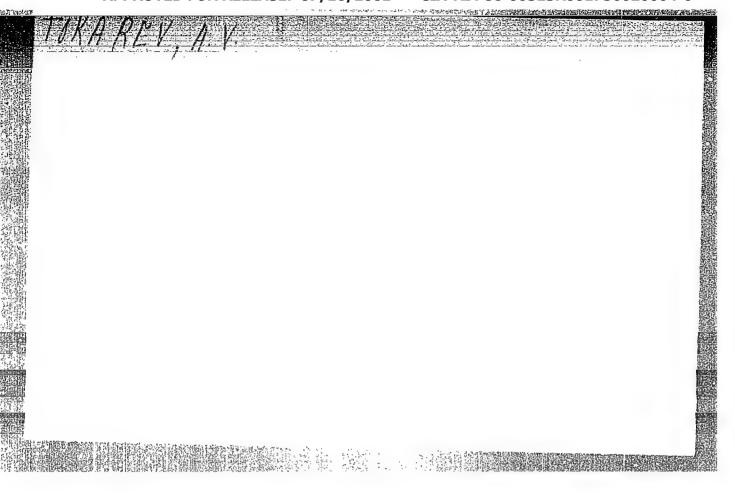
TOKAREV, A.V.; SPASSKIY, S.S.

Investigating the copolymers poly-1,3-butanediol fumarate and styrene. Trudy Inst. met. UFAN SSSR no.4:127-133 '58.

(Polymers)

(Polymers)





SPASSKIY, S.S.: TARASOV, A.I.: TOKAREY, A.V.

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Copolymerization of unsaturated polyesters and vinyl monomers. Part 1: Determination of the number of double bonds in copolymers of unsaturated polyesters and vinyl monomers [with summary in English]. Zhur.fiz.khim. 33 no.2:249-254 F 159.

(MIRA 12:4)

The state of the s

1. Ural'skiy filial AN SSSR, Sverdlovsk.
(Polymers) (Chemical bonds)

USSR / Cultivated Plants. Plants for Technical Use. M Oil Plants. Sugar Plants.

Abs Jour : Ref Zhur - Biologiya, No 6, 1959, No. 24953

Author : Tokarev, B.
Inst : Not given

Title : Productivity of Cotton Crop Rotations on

the "Hunger Steppe" with Two or Three Fields

of Grasses

Orig Pub: Khlopkovodstvo, 1958, No 3, 38-40

Abstract : Experiments on the productivity study of

cotton-alfalfa crop rotations under the conditions of the "Hunger Steppe", conducted by the Pakhta-Aral' Experimental Station of the Kazakh Institute of Agriculture, indicated that the greatest retardation in the growth and development of cotton is observed in crop

Card 1/2

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USSR/Cultivated Plants - Technical, Obsaginans, Sacharifarous. 11-7

Abs Jour : Net Amer - Biol., Ho 9, 1998, 59393

Author :

: Tokarev, B.

Inst

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Title

: The System of Tre-Sowing Soul Cultivation by Washing

Irrigation.

Orig Pub

: Kilopkovodstvo, 1957, No J, 39-41

Abstract

the emperiment took place in the Pakita-Aralisk emperimental station wit. Indicating versions: pre-sowin harrowing in two trails, clistling the depth of 10-12 cm with subsequent harrowing, replaying of the fall ploying with subsequent harrowing. The greatest yield of cotton wook was obtained by chisching. In the Kolkhoz in. Arangel'dy a fall-whiter washing on 450 ha and pre-soil cultivation by shallow LD-10 disk ploys to a depth of 8-10 cm with sicultaneous harrowing in our tracks were applied for the 1956 harvest. The yield of cotton wool was 38 cwt/ha.

Card 1/2

- 103 -

USSR/Cultivated Plants - Technical, Oleagin vo, Bacheriferous. 14-7
Abs Jour : Nef Tur - Biol., H. 9, 1993, 19893

The best methods of pre-sowing fall-plowing cultivation with light gray desert with an salted soils of the Golodnaya steppe after washing are chisching to a depth of 10-12 cm or disking by shallows plows to a depth of 8-10 cm with simultaneous carrowing in two tracks in one aggregate. The sowing of cotton plant takes place innediately after presowing cultivation. -- P.H. Kizian

Card 2/2

· HETCKOKEV, T. I.

AID P - 4096

Subject

: USSR/Electricity

Card 1/2

Pub. 27 - 7/24

Authors

Goryainov, F. A., Kand. Tech. Sci., Dotsent, and B. F.

Tokarev, Kand. Tech. Sci., Moscow

Title

Influence of magnetic asymmetry upon the performance of

a three-step rotating regulator.

Periodical

: Elektrichestvo, 11, 43-46, N 1955

Abstract

: The authors investigate the influence of magnetic asymmetry on the basis of a magnetic equivalent circuit of the rotating regulator. They analyze two cases of asymmetry: the one occuring when under the like poles of the first and third steps and also of the second and third steps a larger air gap is placed than under the poles of opposite polarity; the second, when under the like poles of the first and third and also second and third steps a smaller air gap is placed than under the poles of opposite polarity. The authors conclude that

AID P - 4096

Elektrichestvo, 11, 43-46, N 1955

Card 2/2 Pub. 27 - 7/24

in the first case the magnetic asymmetry causes a sharp decline of the coefficient of amplification, and in the second is the cause of self-excitation of the rotating regulator. Five drawings and diagrams.

Institution: Moscow Power Engineering Institute im. Molotov

Submitted : Fe 21, 1955

TOKAREV, B.F.

112-3-5813

Translation from: Referativnyy Zhurnal, Elektrotekhnika, 1957,

Nr 3, np. 108-109 (USSR)

Goryainov, F.A., and Tokarev, B.F. AUTHOR:

Transients in a Three-Stage Longitudinal-Field Dyna-TITLE:

motor (Perekhodnyye protsessy v trekhstupenchatom EMU

prodolinogo polya)

PERIODICAL: Tr. Mosk. energ. in-ta, 1956, Nr 16, pp. 134-144

A three-stage longitudinal-field self-excited dynamo-ABSTRACT:

electric amplifier is discussed; it possesses high power gain and rapid response. [Included in the abstract is a schematic diagram of the dynamo-electric amplifier, showing the first stage control winding (located on two opposite poles); the third stage control winding (located on all main poles); the self-excitation winding (located on all main poles; compensating winding (located on the same poles as the first stage control winding); and a

winding for auxiliary commutating poles]. The dyna-

motor has three stages of amplification and excitation, Card 1/4

112-3-5813

Transients in a Three-Stage Longitudinal-Field Dynamotor

If the magnetic circuit is not saturated, and if the armature reaction due to current I_{24} is fully compensated, the following system of linear differential equations may be written: First stage: $m_y U_y = (1 + pT_y)E_{137}$

Second stage: $m_2 E_{13} = (1+pT_2)E_{24f}$ Third stage: $m_3 E_{24} =$

$$(1 + pT_{e_1}) (1 + pT_{e_2}) E_{yc}$$
, where $m_y = \frac{E_{13}}{U_y}$, $m_z = \frac{E_3}{E_{13}}$ - voltage

gain of the corresponding stage; T_y , T_z , etc., are time constants computed by means of formulae provided in the text. A relationship between U_y (the input voltage) and $E_{3,7}$ (the output voltage) is obtained from the above system of equations:

 $mU_y = (1 + pT_y)(2 + pT_2)(1 + pTe_1)(1 + pTe_2) E_{37}$

Card 2/4

112-3-5813

Transients in a Three-Stage Longitudinal-Field Dynamotor

where $m = m_y m_2 m_3$ is the overall voltage gain. In the event there are no auxiliary commutating poles in the dynamotor, the relationship between U_y and E_{3T} assumes the following form:

 $m U_y = (1 + pT_y)(1 + pT_2)(1 + pT_e) B_{3x}$

where $\sqrt{-\frac{R_{\rm SL}}{R_{\rm SL}}}$; $R_{\rm Sh}$ - resistance of the self-exciting circuit; $R_{\rm c}$ - critical resistance. The formulae obtained were checked by comparison of design and experimental data for 400-watt dynamotors. The following conclusions may be made on the basis of the comparison: 1. The duration of a transient is determined mainly by the maximum equivalent time constant of the third (last) stage ($T_{\rm c}$ or $T_{\rm c}$). The value of this time constant depends upon the ratio of $R_{\rm Sh}$ to $R_{\rm c}$. The larger the resistance $R_{\rm Sh}$ in comparison with $R_{\rm c}$, the more rapid the transient, but

Card 3/4

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112-3-5813

Transients in a Three-Stage Longitudinal-Field Dynamotor

the smaller the power gain. The equivalent time constant can be decreased by decreasing the time constant of the circuit of brushes 2 and 4 and of the self-excitation winding. The time constant of the circuit of brushes 2 and 4 can be decreased by reducing the number of turns of the third stage control winding. 2. Insufficient compensation of the armature reaction to current I_{24} accelerates the transient to some extent, and overcompensation retards the transient. 3. The coincidence of the design and experimental curves is sufficiently close for application of the equations to the computation of transients in the three-stage dynamo-electric amplifier.

0.I.Z.

ASSOCIATION: Moscow Institute of Power Engineering (Mosk. energ. in-t)

Card 4/4

THE STATE OF THE S

TOKAREV, B. F. and GORYAINOV, F. A.

"Transient Processes in a Three-Stage Amplidyne with Longitudinal Field, " pp 134-144, ill

Abst: Differential equations are presented which describe the transient process in an amplidyne with three-stage excitation.

SOURCE: Trudy Moskovskogo Energeticheskogo In-ta im. V. M. Molotova (Works of the Moscow Energetics Institute imeni V. M. Molotov), No 16, Electromechanics, Moscow-Leningrad, Gosenergoizdat, 1956.

Translation from: Referativnyy Zhurnal, Elektrotekhnika, 1957, Nr 1, p. 120 (USSR)

AUTHORS: Goryainov, F. A., Tokarev, B. F.

TITLE: Design Nof a Three-Stage Dynamoelectric Amplifier of the Longitudinal

Field (K raschetu trekhstupenchatogo elektromashinnogo usilitelya pro-

dol'nogo polya)

PERIODICAL: Tr. Mosk. energ. in-ta, 1956, Nr 16, pp. 145-148

Recommendations are given concerning the design of a 4-pole 3-stage am-ABSTRACT:

plidyne (EMU) of the longitudinal field, with self-excitation winding in the last stage. The calculation is done separately for every stage starting from the terminal (third), because of the unsaturated magnetic system. The selection of the main dimensions is made according to the formula of

the machine constant. The values of Bjare taken as 1.5 to 3 times, and those of AS as 1.1 to 1.2 times smaller than in normal machines. A percentage value of the relationship between the magnetizing force of

the self-excitation and of the control winding of the third stage is given, and also between the output currents of the third,

second and first stages. The magnetizing forces of the control windings of the second and first stages are determined from the conditions Card 1/2

112-1-722

THE STATE OF THE PARTY OF THE P

Design of a Three- Stage Dynamoelectric Amplifier of the Longitudinal Field (Cont.)

of generating the electromotive force which provides the required current in the controlling winding of the subsequent stage. In order to secure a normal commutation of all three armature currents, the auxiliary poles of the EMU are provided with four coils each. A connection diagram for these coils is provided and formulas for the selection of the number of their turns are given. The compensating winding for compensating the armature reaction of the third stage control current is placed on the same poles as the control tinding of the first stage. The compensating winding has a number of turns per pole equal to N/16, where N is the number of active armature conductors. V. S.M.

Card 2/2

AUTHOR:

Tokarev, Boris Fedorovich, Candidate

of Technical Sciences, Docent at the Chair for Electrical

of Technical Sciences, Docent at the Chair for Electrical

Machines of the Moscow Power Engineering Institute

Static Characteristics of a Three-Stage Electrodynamic

Longitudinal Field Amplifier (Staticheskiye kharakteristiki

Longitudinal Field Amplifier (Staticheskiye kharakteristiki

trekhstupenchatogo elektromashinnogo usilitelya prodol'nogo

polya)

PERIODICAL:

Nauchnyye doklady vysshey shkoly. Elektromekhanika i avtomatika,

PERIODICAL:

Nauchnyye doklady
1958, Nr 2, pp 139 - 145 (USSR)

1958, Nr 2, pp 139 - 145 (USSR)

The three-stage electrodynamic longitudinal field amplifier
is carried out in such a way as not to be totally exploited
is carried out in such a way as not to be totally exploited
is carried out in such a way as not to be totally exploited
is carried out in such a way as not to be totally exploited

all electrodynamic amplifiers. Therefore, the analysis of its characteristics can be made without considering the saturation of the magnetic system. The three stages are analyzed. Unlike the first two stages the third one is a lyzed. Unlike the first two stages the third one is a quadripole system. The amplification factor K is then inquadripole system. The amplification factor K is then investigated and the formula for its determination is derived.

vestigated and the formula for its determination is described.

Card 1/2 This formula demonstrates the influence of all construction

CONTROL OF THE PROPERTY OF THE

Static Characteristics of a Three-Stage Electrodynamic SOV/161-58-2-17/30 Longitudinal Field Amplifier

and electromagnetic principal parameters on the amplification factor. At a given output the factor K of the three-stage electrodynamic longitudinal field amplifier increases with decreasing induction within the air gap, with reduction of the air gap and of the current density in the windings. For this reason, in order to attain an increase in the amplification factor a machine has to be used the magnetic and electric properties of which are not completely exploited. From the same formula it can be seen that with an increase in the rotational speed and with an increase of the number of active conductors of the armature winding the amplification factor rises, all other conditions remaining unchanged. An increase in the number of turns of the control winding of the third stage also leads to an increase in the amplification factor. There is 1 figure.

ASSOCIATION:

Kafedra elektricheskikh mashin Moskovskogo energeticheskogo instituta (Chair for Electrical Machines of the Moscow Power

Engineering Institute)

SUBMITTED:

January 2, 1958

Card 2/2

8(3)

Tokarev, B. F., Candidate of Technical

sov/105-59-7-3/30

AUTHOR:

TITLE:

Sciences, Docent Commutation in Valti-stage Electromotor Amplifiers of the Longitudinal Field (Kommutatsiya v mnogostupenchatykh Ball

prodol'nogo polya)

PERIODICAL:

Elektrichestvo, 1959, Nr 7, pp 13 - 18 (USSR)

ABSTRACT:

Additional poles of multi-stage electromotor amplifiers of the longitudinal field generate a commutating field for the currents of various intensities flowing in the armature coil. This is attained by connecting the windings of the additional poles according to the special circuit described in reference 1. It is shown here that this circuit is not able to warrant satisfactory commutation of the currents of the various stages, because the unequal conditions in their commutation are not taken into account. A method of calculating the commutation and the additional poles in multi-stage electromotor amplifiers of the longitudinal field is precisely described. The commutation of a three-stage amplifier is investigated. However, the results obtained apply also to a twostage one. As regards construction, the three-stage electric machine amplifier is a direct current motor with 4 poles. The

Card 1/3

CIA-RDP86-00513R001756020004-6"

APPROVED FOR RELEASE: 07/16/2001

Commutation in Multi-stage Electromotor Amplifiers of the SOV/105-59-7-3/30
Longitudinal Field

armature coil is a lap winding without equipotential connections. The winding pitch is nearly equal or equal to the pole pitch. On two opposed poles (e.g. 4 and 3) the control winding is fitted. In the armature coil of a three-stage amplifier three currents, viz. I13, I24 and the load current I3 flow. I43 and I24 are generated by the double-pole-, and I by a four-pole excitation system. In each of the commutating sections two currents are commutated (I3 and I13 or I3 and I24). The reactive e.m.f. for each of these currents is determined. It is shown that the currents I13 and I24 exercise no reciprocal influence upon the generation of the reactive e.m.f. in the commutation sections during commutation. It is further shown that the resulting inductivity of all sections of an air gap during commutation of the current I3 will be greater than the resulting inductivity of the same section in the commutation of I13 and I24. When calculating the additional poles and the reactive e.m.f. of the commutation sections in a three-stage electromotor amplifier

Card 2/3

Commutation in Multi-stage Electromotor Amplifiers of the SOY/105-59-7-3/30 Longitudinal Field

> must be taken into account. In each of the 4 commutation zones of the three-stage amplifier all three currents are commutated. Therefore, the additional poles must compensate the armature coil in each of the zones and must generate the commutation field for all currents. For the purpose of determining the number of windings of additional poles of the first and second stage, formula (16), and for determining that of the third stage formula (17) is written down. Figure 5 shows that the polarity of the additional poles does not agree for the various stages. In order to warrant satisfactory commutation in all stages the winding of the additional poles must be connected according to the wiring diagram shown by figure 6. There are 8 figures and 3 references, 2 of which are Soviet.

ASSOCIATION:

Moskovskiy energeticheskiy institut (Moscow Institute of Power

Engineering)

SUBMITTED:

October 28, 1958

Card 3/3

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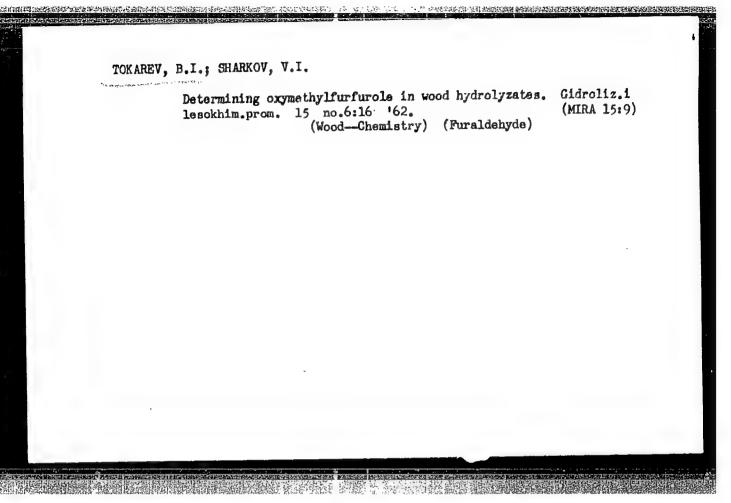
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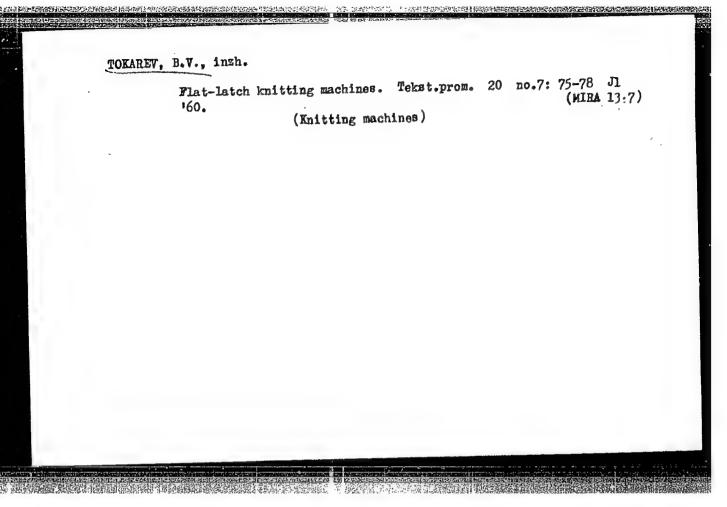
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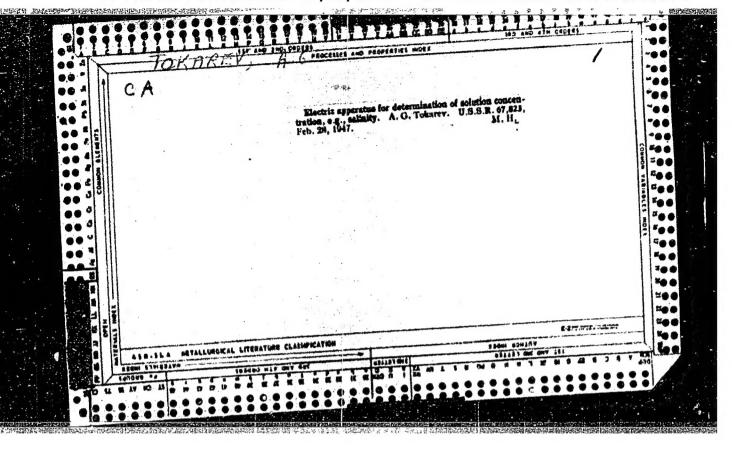
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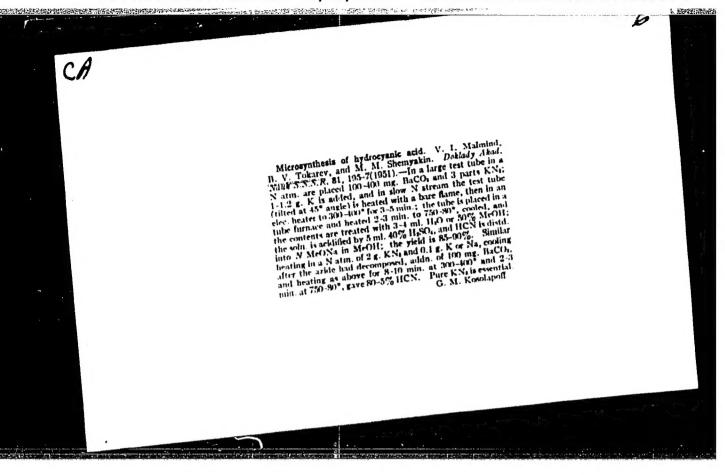
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